

CLAIMS

WHAT IS CLAIMED IS:

5     1.     A system for delivery of a drug to a patient comprising:  
          a drug delivery device including a breath analyser which analyses a patient's  
          breathing and generates breath information on the patient's breathing during drug delivery;  
          a data carrier onto which the drug delivery device is arranged to place the breath  
          information; and  
10           a data analyser arranged to analyse the breath information from the data carrier,  
          and to derive characteristics of the patient's breathing.

15     2.     A system according to claim 1, wherein the data analyser includes a trend  
          generator for analysing breath information and characteristics of the patient's breathing  
          over time.

20     3.     A system according to claim 1, wherein the data analyser includes means for  
          identifying non-compliant use of the drug delivery device.

25     4.     A system according to claim 3, wherein the data analyser includes a trend  
          generator for analysing breath information and characteristics of the patient's breathing  
          over time.

30     5.     A method of optimizing treatment from a drug delivery device comprising:  
          analysing a patient's breathing during drug delivery and generating breath  
          information from that breathing;  
          transferring the breath information to a data analyser;  
          deriving characteristics of the patient's breathing from the breath information; and  
          identifying non-complaint use of the drug delivery device.

6.     A method of identifying changes in condition of a patient over time of treatments  
          from a drug delivery device comprising:  
          analysing a patient's breathing during drug delivery and generating breath  
          information from that breathing;

transferring the breath information to a data analyser;  
deriving characteristics of the patient's breathing from the breath information; and  
analysing the characteristics of the patient's treatments over time to identify trends  
in those characteristics.